

FIG. 1E



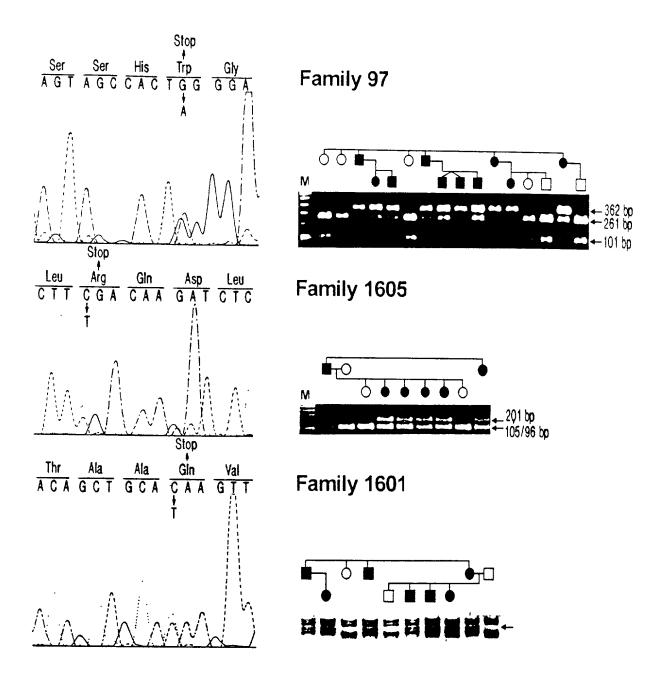


FIG. 3

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n n (EF-hand test) (coordination vertices)
                  (754-782)
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FIG. 4B

										GGC	TCC	TGA	GGC	GCA	CAG	18
CGC	CGA	GCG	CGG	CGC	CGC	GCA	CCC	GCG	CGC	CGG	ACG	CCA	GTG	ACC	GCG	66
ATG Met 1	GTG Val	AAC Asn	TCC Ser	AGT Ser 5	CGC Arg	GTG Val	CAG Gln	CCT Pro	CAG Gln 10	CAG Gln	CCC Pro-	GGG Gly	GAC Asp	GCC Ala 15	AAG Lys	114
		CCC Pro														162
		GCC Ala 35														210
		GGC Gly														258
		CCC Pro														306
		TCC Ser														354
GAG Glu	GAG Glu	GAG Glu	GAG Glu 100	GAG Glu	GAG Glu	GTG Val	GAA Glu	GGG Gly 105	GAA Glu	GAA Glu	GGC Gly	GGA Gly	ATG Met 110	GTG Val	GTG Val	402
GAG Glu	ATG Met	GAC Asp 115	GTA Val	GAG Glu	TGG Trp	CGC Arg	CCG Pro 120	GGC Gly	AGC Ser	CGG Arg	AGG Arg	TCG Ser 125	GCC Ala	GCC Ala	TCC Ser	450
TCG Ser	GCC Ala 130	GTG Val	AGC Ser	TCC Ser	GTG Val	GGC Gly 135	GCG Ala	CGG Arg	AGC Ser	CGG Arg	GGG Gly 140	Leu	GGG	GGC Gly	TAC Tyr	498
CAC His 145	Gly	GCG Ala	GGC	CAC	CCG Pro 150	Ser	GGG Gly	AGG Arg	CGG Arg	CGC Arg 155	Arg	CGA Arg	GAG Glu	GAC Asp	CAG Gln 160	546
GGC Gly	CCG	CCG Pro	TGC Cys	CCC Pro 165	Ser	CCA Pro	GTC Val	GGC Gly	GGC Gly 170	GLY	GAC Asp	CCG Pro	CTG Leu	CAT His 175	Arg	594
CAC His	CTC Leu	CCC Pro	CTG Leu 180	Glu	GGG Gly	CAG Gln	CCG	CCC Pro	Arg	GTG Val	GCC Ala	TGG Trp	GCG Ala 190	GIU	AGG Arg	642

FIG. 5A

CTG Leu	GTT Val	CGC Arg 195	GGG Gly	CTG Leu	CGA Arg	GGT Gly	CTC Leu 200	TGG Trp	GGA Gly	ACA Thr	AGA Arg	CTC Leu 205	ATG Met	GAG Glu	GAA Glu	690
	AGC Ser 210															738
	ACA Thr															786
	ATG Met															834
	CTA Leu															882
	TCT Ser															930
	GGG Gly 290															978
	CGA Arg								Leu						CGA Arg 320	1026
ATA Ile	CGG Arg	CAA Gln	CTC Leu	CGA Arg 325	GTC Val	AGA Arg	AAT Asn	GGA Gly	TCC Ser 330	TGC Cys	TCT Ser	ATC Ile	CCC Pro	CAG Gln 335	GAC Asp	1074
TTG Leu	AGA Arg	GAT Asp	GAA Glu 340	Ile	AAA Lys	GAG Glu	TGC Cys	TAT Tyr 345	GAT Asp	GTC Val	TAC Tyr	TCT Ser	GTC Val 350	AGT Ser	AGT Ser	1122
GAA Glu	GAT Asp	AGG Arg 355	Ala	CCC	TTT Phe	GGG Gly	CCC Pro 360	Arg	AAT Asn	GGA Gly	ACC Thr	GCT Ala 365	TGG Trp	ATC Ile	TAC Tyr	1170
ACA Thr	AGT Ser 370	Glu	AAA Lys	GAC Asp	TTG Leu	AAT Asn 375	Gly	AGT Ser	AGC Ser	CAC His	TGG Trp 380	Gly	ATC Ile	ATT Ile	GCA Ala	1218
ACT Thr 385	Tyr	AGT Ser	GGA Gly	GCT Ala	GGC Gly 390	Tyr	TAT	CTG Leu	GAT Asp	TTG Leu 395	Ser	AGA Arg	ACA Thr	AGA Arg	GAG Glu 400	1266

FIG. 5B

GAA	ACA	GCT	GCA	CAA	GTT	GCT	AGC	CTC	AAG	AAA	аат	GTC	TGG	CTG	GAC	1314
		Ala	Ala													2314
		ACC Thr														1362
		CTG Leu 435														1410
		GTG Val														1458
		ACA Thr														1506
		TTT Phe														1554
ATT Ile	CAC His	AAA Lys	CTA Leu 500	CAC His	TAT Tyr	TTC Phe	AGG Arg	AGT Ser 505	TTC Phe	TGG Trp	AAT Asn	TGT Cys	CTG Leu 510	GAT Asp	GTT Val	1602
GTG Val	ATC Ile	GTT Val 515	GTG Val	CTG Leu	TCA Ser	GTG Val	GTA Val 520	GCT Ala	ATA Ile	GGA Gly	ATT	AAC Asn 525	ATA Ile	TAC	AGA Arg	1650
ACA Thr	TCA Ser 530	AAT Asn	GTG Val	GAG Glu	GTG Val	CTA Leu 535	CTA Leu	CAG Gln	TTT	CTG Leu	GAA Glu 540	Asp	CAA Gln	AAT Asn	ACT Thr	1698
TTC Phe 545	Pro	AAC Asn	T TT Phe	GAG Glu	CAT His 550	Leu	GCA Ala	TAT	TGG Trp	CAG Gln 555	Ile	CAG Gln	TTC Phe	AAC Asn	AAT Asn 560	1746
ATA Ile	GCT Ala	GCT Ala	GTC Val	ACA Thr 565	Val	TTT	TTT Phe	GTC Val	TGG Trp 570	Ile	AAG Lys	CTC Leu	TTC	AAA Lys 575	TTC	1794
ATC Ile	: AAT : Asr	TTT Phe	AAC Asn 580	Arg	ACC	ATG Met	AGC Ser	CAG Gln 585	Leu	TCC Ser	ACA Thr	ACC Thr	Met 590	. Ser	CGA Arg	1842
TGT Cys	GCC Ala	AAA Lys 595	Asp	CTC Lev	TTT Phe	GGC Gly	TT1 Phe	a Ala	ATT	ATC Met	TTC Phe	TTC Phe 605	; TTE	T ATT	TTC Phe	1890

FIG. 5C

						GCA Ala 615									GAT Asp	1938
						GAG Glu									ATT Ile 640	1986
						GCA Ala									TTG Leu	2034
						ACA Thr									CTT Leu	2082
						ATC Ile										2130
TCT Ser	GAC Asp 690	TTG Leu	GCA Ala	CAG Gln	CAG Gln	AAA Lys 695	GCT Ala	GAA Glu	ATG Met	GAA Glu	CTC Leu 700	TCA Ser	GAT Asp	CTT Leu	ATC Ile	2178
						GCT Ala									AAT Asn 720	2226
ACC Thr	GTG Val	GAT Asp	GAC Asp	ATT Ile 725	TCA Ser	GAG Glu	AGT Ser	CTG Leu	CGG Arg 730	CAA Gln	GGA Gly	GGA Gly	GGC Gly	AAG Lys 735	TTA Leu	2274
AAC Asn	TTT Phe	GAC Asp	GAA Glu 740	CTT Leu	CGA Arg	CAA Gln	GAT Asp	CTC Leu 745	AAA Lys	GGG Gly	AAG Lys	GGC Gly	CAT His 750	ACT Thr	GAT Asp	2322
GCA Ala	GAG Glu	ATT Ile 755	Glu	GCA Ala	ATA Ile	TTC Phe	ACA Thr 760	Lys	TAC Tyr	GAC Asp	CAA Gln	GAT Asp 765	Gly	GAC Asp	CAA Gln	2370
G AA Glu	CTG Leu 770	Thr	GAA Glu	CAT His	GAA Glu	CAT His 775	Gln	CAG Gln	ATG Met	AGA Arg	GAC Asp 780	Asp	TTG Leu	GAG Glu	AAA Lys	2418
GAG Glu 785	Arg	GAG Glu	GAC Asp	CTG Leu	GAT Asp 790	Leu	GAT Asp	CAC His	AGT Ser	TCT Ser 795	Leu	CCA Pro	. CGT Arg	CCC Pro	ATG Met 800	2466
AGC Ser	AGC Ser	CGA Arg	AGT Ser	TTC Phe	Pro	CGA Arg	AGC Ser	CTC	GAT Asp 810) Asp	TCT Ser	GAG Glu	GAG Glu	GAT Asp 815	GAC Asp	2514

FIG. 5D

GAT Asp	GAA Glu	GAT Asp	AGC Ser 820	GGA Gly	CAT His	AGC Ser	TCC Ser	AGA Arg 825	AGG Arg	AGG Arg	GGA Gly	AGC Ser	ATT Ile 830	TCT Ser	AGT Ser	2562
	GTT Val														CGG Arg	2610
	GAG Glu 850														ATC Ile	2658
	AAG Lys														GTG Val 880	2706
	GGA Gly														CGT Arg	2754
	AGT Ser														GAG Glu	2802
TTG Leu	GAA Glu	CGC Arg 915	TGG Trp	GAA Glu	TCC Ser	GAT Asp	GAT Asp 920	GCA Ala	GCT Ala	TCC Ser	CAG Gln	ATC Ile 925	AGT Ser	CAT His	GGT Gly	2850
TTA Leu	GGC Gly 930	ACG Thr	CCA Pro	GTG Val	GGA Gly	CTA Leu 935	AAT Asn	GGT Gly	CAA Gln	CCT Pro	CGC Arg 940	CCC Pro	AGA Arg	AGC Ser	TCC Ser	2898
CGC Arg 945	CCA Pro	TCT Ser	TCC Ser	TCC Ser	CAA Gln 950	TCT Ser	ACA Thr	GAA Glu	GGC Gly	ATG Met 955	GAA Glu	GGT Gly	GCA Ala	GGT Gly	GGA Gly 960	2946
	GGG Gly								TAT	GTG	TGT	TTC	AGT	ATG	TGT	2994
GTT	TCT	AAT	AAG	TGA	GGA	AGT	GGC	TGT	CCT	GAA	TTG	CTG	TAA	CAA	GCA	3042
CAC	TAT	TTA	TAT	GCC	CTG	ACC	ACC	ATA	GGA	TGC	TAG	TCT	TTG	TGA	CCG	3090
ATT	GCT	AAT	CTT	CTG	CAC	TTT	AAT	TTA	TTT	TAT	ATA	AAC	TTT	ACC	CAT	3138
GGI	TCA	. AAG	ATT	TTT	TTT	TCT	TTT	TCT	CAT	ATA	AGA	AAT	CTA	GGT	GTA	3186
AAT	' ATT	GAG	TAC	AGA	. AAA	AAA	ATC	TTC	ATG	ATG	TGT	ATT	' GAG	GGG	TAC	3234
GCC	CAG	ŢTG	CCA	CCA	TGA	CTG	AGT	CTI	CTC	AGT	TGA	CAA	TGA	AGT	AGC	3282

FIG. 5E

CTT TTA AAG CTA GAA AAC TGT CAA AGG GCT TCT GAG TTT CAT TTC CAG TCA CAA AAA TCA GTA TTG TTA TTT TCC AAG AGT GTG AAG GAA AAT 3378 GGG GCA ATT CCT TTC CAC TCT GGC ATA GTT CAT GAG CTT AAT ACA TAG 3426 CTT TCT TTT AAG AAA GGA GCC TTT TTT TTC AAC TAG CTT CCT GGG GTA 3474 AAC TTT TCT AAA AGA TAA AAT GGG AAG GAA CTC CAA ACT ATG ATA GAA 3522 TCT GTG TGA ATG GTT AAG ATG AAT GTT AAA TAC TAT GCT TTT TTG TAA 3570 GTT GAT CGT ATC TGA TGT CTG TGG GAC TAA CTG TAT CAC TTA ATT TTT 3618 ACC TTA TTT TGG CTC TAA TTT GAA TAA GCT GAG TAA AAC CAC CAA AGA 3666 TCA GTT ATA GGA TAA AAT GGC ATC TCT AAC CAT AAC ACA GGA GAA TTG 3714 GAA GGA GCC CTA AGT TGT CAC TCA GTT TAA TTT CTT TTA ATG GTT AGT 3762 TTA GCC TAA AGA TTT ATC TGC ATA TTC TTT TTC CCA TGT GGC TCT ACT 3810 CAT TTG CAA CTG AAT TTA ATG TTA TAA CTC ATC TAG TGA GAC CAA CTT 3858 ACT AAA TTT TTA GTA TGC ACT GAA AGT TTT TAT CCA ACA ATT ATG TTC 3906 ATT TTA AGC AAA ATT TTA AGA AAG TTT TGA AAT TCA TAA AGC ATT TGG 3954 TTT TAA ACT ATT TTA AGA ATA TAG TAC TCG GTC AGG TAT GNN NCA CGC 4002 CTG TAA TCC CAG CAC TTT GGG AGG CCG AAA CAG GCG AAT CAC TTG AGC 4050 CCA GGA GTT CAA GAC CAA CAT GGG CAA TGT GGC GAA ACT CCA TCT CTA 4098 CAA AAA ATG CAA AAA TAA AAA ATA TAG TAC TCA AGT ATT CTT GAT CCT 4146 GTG TTT CAA AAC TAG AAT TTG TAA TGC AAA TGG AGC TCA GTC TAA TAA 4194 AAA AGA GGT TTT GGT ATT AAA AGT TCA TAC ATT AGA CAG TAT CAG CCA 4242 AAA TTT GAG TTA GCA ACA CTG TTT TCT TTA CGA GAG GGT CTC ACC CAA 4290 4338 AGA AAT GTT GAG TAA GGT GAC ATT TTG AGC GCT AAT AAG CAA AAG AGC 4386 ATG CAG TGC TGT TGA ATA ACC CTC ACT TGG AGA ACC AAG AGA ATC CTG 4434 TCG TTT AAT GCT ATA TTT TAA TTT CAC AAG TTG TTC ATT TAA CTG GTA 4482 GAA TGT CAG TCC AAT CTC CAA TGA GAA CAT GAG CAA ATA GAC CTT TCC 4530

FIG. 5F

AGG TTG AAA GTG AAA CAT ACT GGG TTT CTG TAA GTT TTT CCT CAT GGC 4578 TTC ATC TCT ATC TTT ACT TTC TCT TGA ATA TGC TAC ACA AAG TTC TTT 4626 ATT ACT ACA TAC TAA AGT TTG CAT TCC AGG GAT ATT GAC TGT ACA TAT 4674 TTA TGT ATA TGT ACC ATG TTG TTA CAT GTA AAC AAA CTT CAA TTT GAA 4722 GTG CAG CTA TTA TGT GGT ATC CAT GTG TAT CGA CCA TGT GCC ATA TAT 4770 CAA TTA TGG TCA CTA GAA AGT CTC TTT ATG ATA CTT TTT ATT GTA CTG 4818 TTT TTC ATT TCA CTT GCA AAA TTT TGC AGA ATT CCT CCT TTC TAC CCA 4866 TAA ATT ACA TAT AAT TTT TCT TCT TTA GTC ATG GAG AAC NCC CCC CCA 4914 TCA TCT CAN CCC TAT TAN CTT TCC CAT GTG TAC TGG TAT TAT TAA AAA 4962 GAC ATT TAC ATA CGC AAG TTT TTC ACT GAC AAN CAA GAA TGT TAT TAA 5010 TGT GTA ATA CTG AGC ACN TTT ACT TCT TAA TAA AAA CTT GAT ATA NT 5057

FIG. 5G